

1 What is claimed is:

2 1. A method to electronically represent a work, comprising:  
3 storing in a manifest a first reference to a first digital resource, and a first meta-  
4 data describing the first digital resource;  
5 storing in the manifest a second reference to a second digital resource, and a  
6 second meta-data describing the second digital resource; and  
7 storing in the manifest a structural relationship between said first and second  
8 digital resources;  
9 wherein the manifest comprises structure corresponding to the work.

10  
11 2. The method of claim 1, wherein the work is a digital representation of a  
12 physical good, and the manifest comprises structure corresponding to the physical  
13 good.

14  
15 3. The method of claim 1, further comprising:  
16 storing within the manifest selected ones of: purchasing data for the work,  
17 purchasing data for said digital resources, intended audience ratings for said digital  
18 resources, content ratings for said digital resources, and processing rules describing  
19 how a machine is to process the manifest.

20

21 4. A method for defining a manifest for a specific digital representation of a  
22 work, comprising:  
23 storing in the manifest a first reference to a first digital resource;

1 storing in the manifest a first meta-data describing selected ones of the manifest  
2 and the first digital resource; and  
3 making the first manifest available for receiving by a receiver; and  
4 associating the first reference and the first meta-data so that the manifest  
5 comprises structure corresponding to a physical good.  
6

7 5. The method of claim 3, wherein said digital resource includes selected  
8 ones of audio data, video data, audiovisual data, image data, binary data, world wide  
9 web documents, virtual reality data, textual data, holographic data, and programming  
10 language programs.

11  
12 6. The method of claim 4, wherein the first meta-data comprises an intended-  
13 audience attribute.

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15 7. The method of claim 4, further comprising:  
16 storing purchasing data for the first digital resource in the manifest to facilitate a  
17 purchase decision by a receiver of the manifest.  
18

19 8. The method of claim 6, further comprising:  
20 storing in the manifest a second reference to a second digital resource, said first  
21 and second digital resource encoding an original resource with differing encoding  
22 quality; and

1 setting prices in the purchasing data for said first and second resources based at  
2 least in part on said encoding quality.

3  
4 9. The method of claim 4, further comprising:  
5 storing in the manifest a second reference to a second digital resource related to  
6 but not included in the physical good.

7  
8 10. The method of claim 9, further comprising:  
9 storing in the manifest a second reference to a second digital resource, said first  
10 and second digital resource encoding an original resource with differing encoding  
11 quality; and

12 setting prices in the purchasing data for said first and second resources based at  
13 least in part on said encoding quality.

14  
15 11. The method of claim 4, further comprising:  
16 storing content ratings information within the manifest so that the receiver can  
17 filter content according to said content ratings.

18  
19 12. The method of claim 4, further comprising:  
20 storing digital rights management information within the manifest.

21  
22 13. The method of claim 4, further comprising:  
23 storing authentication information within the manifest.

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2           14.    The method of claim 4, further comprising:  
3           storing in the manifest a second reference to a second digital resource, said first  
4   and second digital resources encoding an original resource with differing encoding  
5   quality.

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7           15.    The method of claim 4, further comprising:  
8           encoding the manifest with a hierarchical tag based markup language; and  
9           structuring the manifest with respect to a rules-based grammar.

10  
11           16.    A method for processing a collection of digital content received by a  
12   receiver having at least one policy affecting receipt of collections, comprising:  
13           receiving a manifest for a work comprising a description of data stored by the  
14   collection, a reference to a first digital resource, and meta-data describing the first digital  
15   content, wherein the manifest comprises a relationship between the reference and said  
16   meta-data so that the manifest includes structure corresponding to the work;  
17           testing compliance of the description with the policy;  
18           determining if the manifest can be edited to comply with the policy; and  
19           if not, disposing of the manifest.

20  
21           17.    The method of claim 16, further comprising:  
22           providing a search query for locating digital content to a search agent; and  
23           receiving the manifest in response to the search query.

1  
2 18. The method of claim 16, further comprising:  
3 the manifest further comprising a second reference to second digital content,  
4 second meta-data describing the second digital content, and purchasing data for said  
5 first and second digital content;  
6 deciding to obtain the collection;  
7 determining the first digital content was not previously obtained;  
8 determining the second digital content has been previously been obtained; and  
9 purchasing only the first digital content in accord with said purchasing data.

10  
11 19. The method of claim 16, further comprising:  
12 the manifest further comprising a second reference to second digital content,  
13 second meta-data describing the second digital content;  
14 deciding to obtain the first collection;  
15 determining the second digital content has been previously been obtained, said  
16 determining being based on the second digital content already being present in a  
17 selected one of: a cache, another collection, or a local storage device; and  
18 obtaining only the first digital content.

19  
20 20. A digital content management system, comprising:  
21 a storage for storing digital content collections, wherein a collection comprises a  
22 link reference to digital content, and meta-data describing selected ones of said digital  
23 content and the collection;

1 a communication agent communicatively coupled to the storage;  
2 a receiver communicatively coupled to the communication agent, said receiver  
3 configured to inspect said meta-data and process the collection accordingly; and  
4 a transmitter communicatively coupled to the communication agent, said  
5 transmitter configured to inspect the reference to digital content to confirm retrievability  
6 of the digital content, and to make the collection available to other digital content  
7 management systems.

8  
9 21. The system of claim 20, further comprising:  
10 a creation tool for creating the collection; and  
11 a user interface communicatively coupled to the creation tool, said user interface  
12 having a first interface tool to facilitate selection of the digital content, and a second  
13 interface tool to facilitate entering said meta-data.

14  
15 22. The system of claim 21, further comprising:  
16 a search agent configured to receive a search criteria and search for digital  
17 content collections satisfying said search criteria; and  
18 a commerce agent comprising a purchasing tool configured to determine  
19 purchasing requirements for received digital content collections, and a payment tool  
20 configured to purchase digital content in accord with said purchasing requirements.

21  
22 23. The system of claim 20, wherein digital content collections are encoded  
23 with a hierarchical tag based markup language.

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2        24.    The system of claim 20, further comprising:  
3        a policy checker configured to check digital content collections received by the  
4        communication agent against a policy of the receiver;  
5        a digital content collection editor, communicatively coupled to the policy checker,  
6        said editor configured to change digital content collections to comply with the policy;  
7        and  
8        a digital content collection rejecter, communicatively coupled to said editor, said  
9        rejecter configured to reject received digital content collections.

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11       25.    The system of claim 24, wherein said digital content collection rejecter is  
12       configured to reject digital content collections that cannot be edited to comply with the  
13       policy.

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15       26.    The system of claim 20, further comprising:  
16       a search agent configured to locate digital content satisfying a search criteria,  
17       said locating including searching the storage for satisfying digital content.

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19       27.    The system of claim 26, wherein the storage is communicatively coupled  
20       to the system through a network connection.

21  
22       28.    A method for collecting and managing digital content, comprising:  
23       determining a first digital resource to include in a collection;

1 storing a first reference to the first resource in the collection;  
2 determining a first meta-data of the first resource;  
3 storing said associated first meta-data in the collection;  
4 storing the collection in a storage accessible by a receiver;  
5 inspecting, by the receiver, of the first meta-data description; and  
6 determining, based at least on said inspecting, whether to obtain the first  
7 resource according to the first reference.

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9 29. The method of claim 28, further comprising:  
10 associating security data with the collection to facilitate detecting alterations to  
11 the collection.

12  
13 30. The method of claim 28, further comprising:  
14 determining compliance of the collection with a receiver policy;  
15 editing the collection to conform the collection to the receiver policy; and  
16 revising, by the receiver, said associated security in accordance with said editing.

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18 31. The method of claim 30, wherein said revising comprises the receiver  
19 cryptographically signing some or all of the collection to facilitate identifying that said  
20 receiver performed said revising.

21  
22 32. The method of claim 28, further comprising:  
23 logically structuring the collection to correspond to a physical good.



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2           33.    A sales method utilizing a collection description describing a seller  
3 collection, comprising:  
4           assigning a category to the collection description to facilitate management of the  
5 seller collection according to the category;  
6           determining a first resource to be sold with the seller collection;  
7           determining a first meta-data describing the first resource;  
8           storing the first meta-data in the collection description;  
9           storing at least one reference to the first resource in the collection description,  
10 where plural references may be used to provide the first resource to the buyer at  
11 different quality levels;  
12           associating pricing data with each reference to the first resource; and  
13           storing said pricing data in the collection description.

14  
15           34.    The method of claim 33, further comprising:  
16           providing the collection description to a buyer agent;  
17           identifying buyer access of the resource; and  
18           charging the buyer according to pricing data associated with the resource.

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20           35.    The method of claim 34, wherein the buyer agent is the buyer.

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22           36.    A rules-based method for declaring a decision tree for a manifest for a  
23 work, comprising:

1 storing a first choice within the manifest;  
2 associating first meta-data with the first choice;  
3 association a first selection with the first choice;  
4 wherein a portion of the manifest is dependent on the first selection.  
5

6 37. The method of claim 36, further comprising:  
7 storing a second selection within the manifest;  
8 wherein said dependency for the portion of the manifest is predicated on said first  
9 and second selections.

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11 38. The method of claim 36, further comprising:  
12 associating second meta-data with the selection.  
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14 39. The method of claim 36, wherein the first selection is either inclusive or  
15 exclusive.  
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17 40. An article comprising a machine accessible medium having instruction  
18 encoded thereon for collecting and managing digital content, said instructions, which  
19 when executed by a machine, are capable of directing the machine to perform the  
20 operations of claim 1.  
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22 41. The article of claim 40, said instructions including further instructions  
23 capable of directing the machine to perform the operations of claim 2.

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2           42.    An article comprising a machine accessible medium having instructions  
3 encoded thereon for defining a manifest for digital content, said instructions, which  
4 when executed by a machine, are capable of directing the machine to perform the  
5 operations of claim 4.

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7           43.    The article of claim 41, said instructions including further instructions  
8 capable of directing the machine to perform the operations of claim 7.

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10           44.    The article of claim 43, said instructions including further instructions  
11 capable of directing the machine to perform the operations of claim 8.

12

13           45.    An article comprising a machine accessible medium having instructions  
14 encoded thereon for processing a collection of digital content received by a receiver  
15 having at least one policy affecting receipt of collections, said instructions, which when  
16 executed by a machine, are capable of directing the machine to perform the operations  
17 of claim 16.

18

19           46.    The article of claim 45, said instructions including further instructions  
20 capable of directing the machine to perform the operations of claim 17.

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22           47.    The article of claim 45, said instructions including further instructions  
23 capable of directing the machine to perform the operations of claim 18.

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2           48.    The article of claim 45, said instructions including further instructions  
3 capable of directing the machine to perform the operations of claim 19.

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5           49.    An article comprising a machine accessible medium having instruction  
6 encoded thereon for collecting and managing digital content, said instructions, which  
7 when executed by a machine, are capable of directing the machine to perform the  
8 operations of claim 28.

9

10           50.   The article of claim 45, said instructions including further instructions  
11 capable of directing the machine to perform the operations of claim 29.

12

13           51.   An article comprising a machine accessible medium having instruction  
14 encoded thereon for collecting and managing digital content, said instructions, which  
15 when executed by a machine, are capable of directing the machine to perform the  
16 operations of claim 36.

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18           52.   The article of claim 51, said instructions including further instructions  
19 capable of directing the machine to perform the operations of claim 37